

# **Alternatives for Landmine Detection**

**Jacqueline MacDonald**

**J.R. Lockwood**

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# Alternatives For Landmine Detection

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## **Alternatives For Landmine Detection:**

**Alternatives for Landmine Detection** Jacqueline MacDonald Gibson, Jacqueline MacDonald, J. R. Lockwood, John E. McFee, Thomas Altshuler, Thomas Broach, 2003 At the rate that government and nongovernmental organizations are clearing existing landmines it will take 450 500 years to rid the world of them Concerned about the slow pace of demining the Office of Science and Technology asked RAND to assess potential innovative technologies being explored and to project what funding would be required to foster the development of the more promising ones The authors of this report suggest that the federal government undertake a research and development effort to develop a multisensor mine detection system over the next five to eight years *Alternatives for Landmine Detection*, 2003 Antipersonnel mines remain a significant international threat to civilians despite recent intense efforts by the United States other developed countries and humanitarian aid organizations to clear them from postconflict regions Mines claim an estimated 15 000 20 000 victims per year in some 90 countries They jeopardize the resumption of normal activities from subsistence farming to commercial enterprise long after periods of conflict have ceased For example in Afghanistan during 2000 mines claimed 150 300 victims per month half of them children Although most of these mines were emplaced during the Soviet occupation of Afghanistan from 1979 to 1988 they continue to pose a serious risk to returning refugees and have placed vast tracts of farmland off limits The United States currently invests about 100 million annually in humanitarian mine clearance the largest commitment of any country Despite this investment and the funding from many other developed nations and nongovernmental organizations at the current rate clearing all existing mines could take 450 500 years Detection of Explosives and Landmines Hiltmar Schubert, Andrey Kuznetsov, 2002-07-31 The problem of reliably detecting explosives whether in buried landmines or hidden in cars aircraft cargo baggage or carried by suicide bombers has not yet been solved Explosive device detection technology can make a major contribution to collective family and individual security This book reviews the state of the art in a wide range of different technologies and considers whether there are alternative methods or technologies It includes information from experts about methods and field experience The consensus is that current sensor technologies are inadequate for most mine action tasks and anti terrorist activities consider plastic mines and no single sensor system will be able to meet all needs Scientists must forge strong links with end users and should visit real minefields to acquire a clear understanding of the problems **Anti-personnel Landmine Detection for Humanitarian Demining** Katsuhisa Furuta, Jun Ishikawa, 2009-01-24 Anti personnel Landmine Detection for Humanitarian Demining reports on state of the art technologies developed during a Japanese National Research Project 2002 2007 The conventional method of landmine detection is using metal detectors to sense the metal in mines but often other metal fragments in minefields camouflage landmines and hinder progress using this form of demining The challenge is to develop detection systems that can discriminate between AP landmines and random metal fragments The JST adopted research proposals and the results are reported here This book

concentrates on aspects of three approaches to AP mine detection enhancing and confirming the results of metal detection scans using GPR using robot vehicles and manipulators to operate within minefields remotely and methods of sensing the explosives within mines Results are presented in the fields of GPR nuclear quadrupole resonance neutron thermal analysis and biosensors The integration of these methods for workable robot operation is demonstrated The project was carried out in conjunction with mine action centers in Croatia Cambodia and Afghanistan Evaluation data from field trials are also given

Counterterrorist Detection Techniques of Explosives Jehuda Yinon,2011-10-13 The detection of hidden explosives has become an issue of utmost importance in recent years While terrorism is not new to the international community recent terrorist attacks have raised the issue of detection of explosives and have generated a great demand for rapid sensitive and reliable methods for detecting hidden explosives Counterterrorist Detection Techniques of Explosives covers recent advances in this area of research including vapor and trace detection techniques chemiluminescence mass spectrometry ion mobility spectrometry electrochemical methods and micromechanical sensors such as microcantilevers and bulk detection techniques neutron techniques nuclear quadrupole resonance x ray diffraction imaging millimeter wave imaging terahertz imaging and laser techniques This book will be of interest to any scientists involved in the design and application of security screening technologies including new sensors and detecting devices which will prevent the smuggling of bombs and explosives Covers latest advances in vapor and trace detection techniques and bulk detection techniques Reviews both current techniques and those in advanced stages of development Techniques that are described in detail including its principles of operation as well as its applications in the detection of explosives

*Report of the Defense Science Board Task Force on Unexploded Ordnance (UXO) Clearance, Active Range UXO Clearance, and Explosive Ordnance Disposal (EOD) Programs* , *Federal Register* ,1996-07-29

Civil Engineering Applications of Ground Penetrating Radar Andrea Benedetto,Lara Pajewski,2015-04-07 This book based on Transport and Urban Development COST Action TU1208 presents the most advanced applications of ground penetrating radar GPR in a civil engineering context with documentation of instrumentation methods and results It explains clearly how GPR can be employed for the surveying of critical transport infrastructure such as roads pavements bridges and tunnels and for the sensing and mapping of underground utilities and voids Detailed attention is also devoted to use of GPR in the inspection of geological structures and of construction materials and structures including reinforced concrete steel reinforcing bars and pre post tensioned stressing ducts Advanced methods for solution of electromagnetic scattering problems and new data processing techniques are also presented Readers will come to appreciate that GPR is a safe advanced non destructive and noninvasive imaging technique that can be effectively used for the inspection of composite structures and the performance of diagnostics relevant to the entire life cycle of civil engineering works

**Detection and Remediation Technologies for Mines and Minelike Targets IX** ,2004 Trace Chemical Sensing of Explosives Ronald L. Woodfin,2007 This timely book covers the most recent developments in the chemical

detection of explosives in a variety of environments Beginning with a broad view of the need for and the potential applications of chemical sensing the book considers the issue of how to effectively include chemical sensing into systems designed to find hidden explosives devices Offering a firsthand look at the latest technologies direct from those who are actively developing them the book features A look at the history of the field including the contributions of recent programs A brief explanation of the chemistry of various explosives and differences in the place where they may be detected An introduction to the problems presented by trace element sensing An overview and comparison of the technologies currently being used and developed Case studies of field experiences with chemical sensors A look at the emerging threat of non traditional explosives This book is an important reference for explosives engineers systems engineers involved in the development of related devices government agencies and NGOs involved in demining efforts military and law enforcement specialists in mines and explosive ordinance disposal EOD as well as environmental scientists and chemists involved in explosives research In addition to providing field workers with knowledge that will help them decide where and how to search for explosives using chemical sensors It will provide them with an understanding of the potential and the limitations of chemical sensing in their search for and identification of dangerous devices

**The Extreme Searcher's Internet Handbook** Randolph Hock,2010 Presents a guide on how to effectively search the Internet covering such topics as search engines directories newsgroups image resources and reference resources Modeling and Applications of Acoustic and Electromagnetic Wave Interaction Amelia Marie Buerkle,2007 Hard X-ray and Gamma-ray Detector Physics and Penetrating Radiation Systems VIII ,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature MR ,2003 **Engineering, Construction, and Operations in Challenging Environments** ,2004 Investigation of DCP and SSG as Alternative Methods to Determine Subgrade Stability Tuncer B. Edil,Aukpath Sawangsuriya,2005 **Near Surface Geophysics** ,2008 **Proceedings of the Seventh International Symposium on Technology and the Mine Problem** ,2006 **Rand Review** ,2003 **Detection and Remediation Technologies for Mines and Minelike Targets** ,2000

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